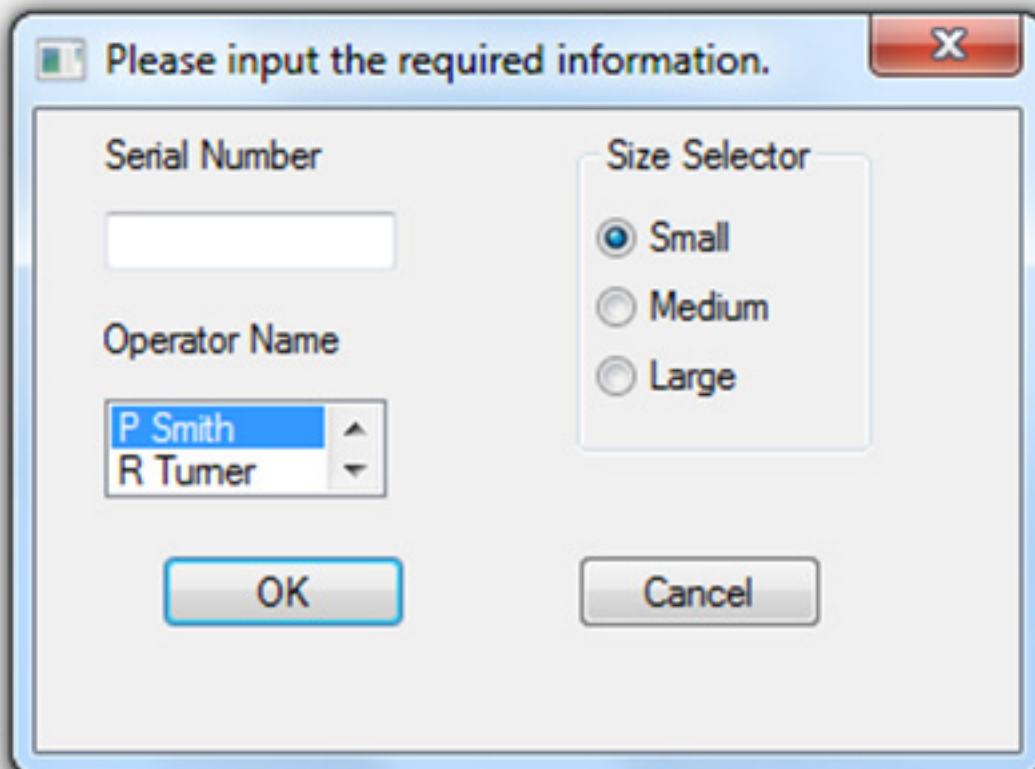


# Prompt editor



**Please input the required information.**

Serial Number

Operator Name  

P Smith  
R Turner

Size Selector  
☒ Small  
☐ Medium  
☐ Large

OK Cancel

© 2013 - 2014 Renishaw plc. All rights reserved.

Renishaw® is a registered trademark of Renishaw plc.

This document may not be copied or reproduced in whole or in part, or transferred to any other media or language, by any means, without the prior written permission of Renishaw.

The publication of material within this document does not imply freedom from the patent rights of Renishaw plc.

### **Disclaimer**

Considerable effort has been made to ensure that the contents of this document are free from inaccuracies and omissions. However, Renishaw makes no warranties with respect to the contents of this document and specifically disclaims any implied warranties. Renishaw reserves the right to make changes to this document and to the product described herein without obligation to notify any person of such changes.

### **Trademarks**

All brand names and product names used in this document are trade names, service marks, trademarks, or registered trademarks of their respective owners.

## Prompt editor

## Care of equipment

Renishaw probes and associated systems are precision tools used for obtaining precise measurements and must therefore be treated with care.

## Changes to Renishaw products

Renishaw reserves the right to improve, change or modify its hardware or software without incurring any obligations to make changes to Renishaw equipment previously sold.

## Warranty

Renishaw plc warrants its equipment for a limited period (as set out in our Standard Terms and Conditions of Sale) provided that it is installed exactly as defined in associated Renishaw documentation.

Prior consent must be obtained from Renishaw if non-Renishaw equipment (e.g. interfaces and/or cabling) is to be used or substituted. Failure to comply with this will invalidate the Renishaw warranty.

Claims under warranty must be made from authorised service centres only, which may be advised by the supplier or distributor.

## Trademarks

Windows 98, Windows XP, Windows 2000 and Windows NT are registered tradenames of the Microsoft Corporation.

IBM is the tradename of the International Business Machines Inc

All trademarks and tradenames are acknowledged.

---

## Contents

1	Prompt editor.....	6
1.1	Tutorial pre-requisites.....	6
1.2	Tutorial objectives.....	6
2	Introduction.....	7
3	Declaring the required variables.....	8
4	Creating a prompt box.....	9
5	Adding an 'edit' field in a prompt box.....	11
6	Adding a 'list' box in a prompt box .....	13
7	Adding a 'button' group in a prompt box .....	15

# **1 Prompt editor**

## **1.1 Tutorial pre-requisites**

- Student should be familiar with the content of the basic tutorials
- Student should have completed the 'Introduction to high level programming' tutorial

## **1.2 Tutorial objectives**

- Further discussion of the methods used to request the input of information within measurement programs

## 2 Introduction

Prompts are used to allow the user to input information that is necessary to run the program, particularly when the value of inputted variables dictates the route the program takes.

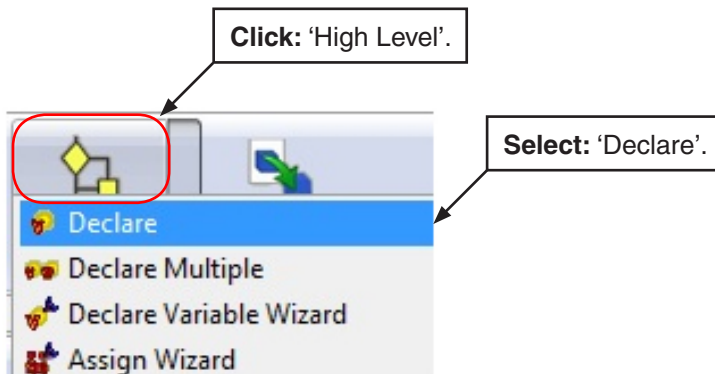
In this tutorial, a prompt box will be created with the following features:

- An edit field for the operator to input the part serial number
- A drop down list for the operator to select their own name
- Radio buttons to select the part size (small, medium or large)

### 3 Declaring the required variables

The dialogue window will use variables to store the result of any inputs. All required variables must be declared (DECL) before they can be used in the 'Prompt' command.

**GUIDANCE NOTE:** Variables were explained in the 'Logic' tutorial.



In this tutorial three variables need to be declared:

- A local, string variable to hold the 'Operator name'
- A local, string variable to hold the part 'Serial number'
- A local, integer value to hold the result of the part size selection

Select the required 'Scope' and 'Type' and then input the variable name.

An example of the resulting code is shown below:

```
000017
000018 DECL/LOCAL,CHAR,512,L_STR_OPER_NAME
000019 DECL/LOCAL,CHAR,512,L_STR_SER_NO
000020 DECL/LOCAL,INTGR,L_INT_PART_CHOICE
000021
```



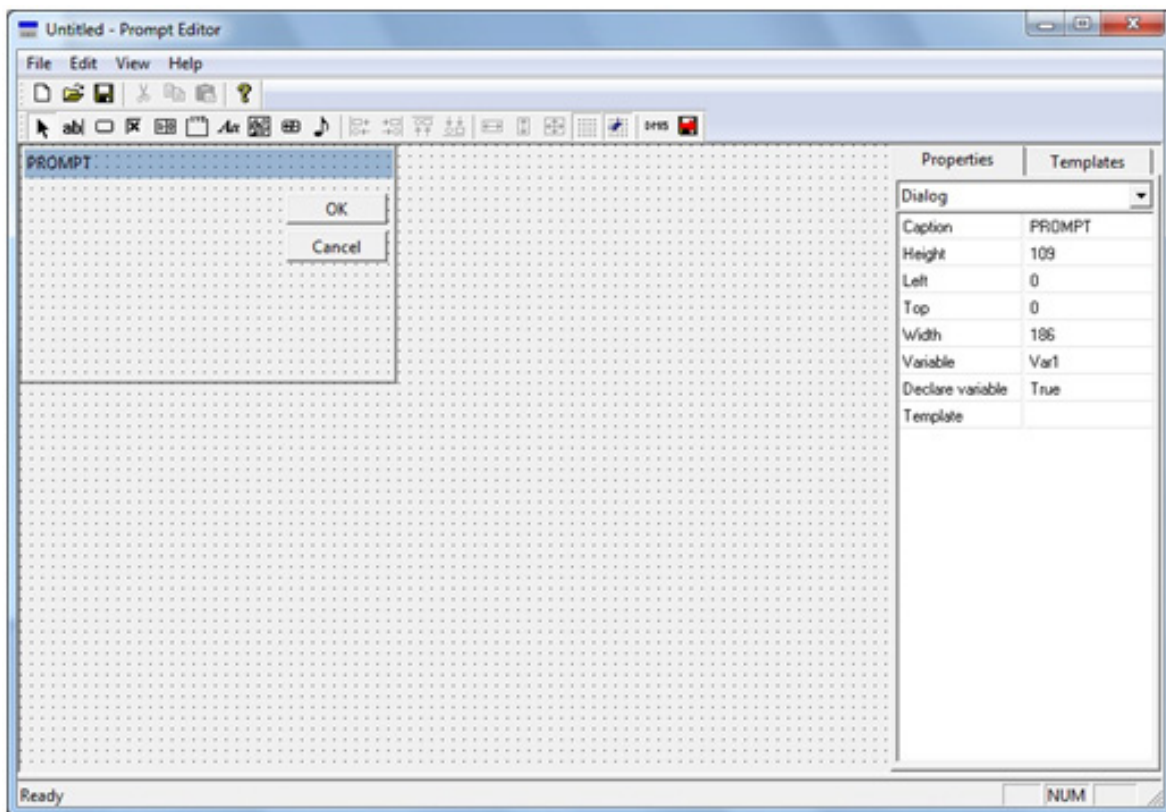
## 4 Creating a prompt box

After declaring the variables, the prompt box can be designed.

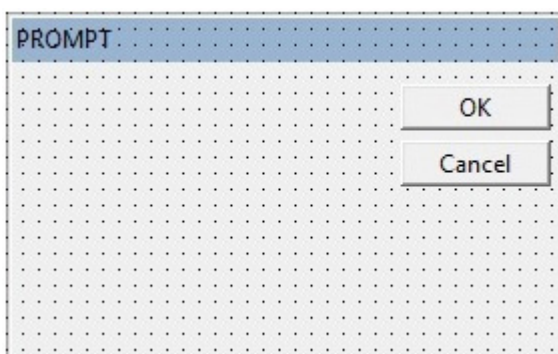
**Click:** 'High Level' then select 'Prompt':



The 'Prompt Editor' window will appear. The 'Prompt Editor' design utility provides the tools to create a dialogue window. The dialogue window can contain text prompts, input fields, buttons, check boxes, list boxes, grouped buttons, sounds and bitmap images.

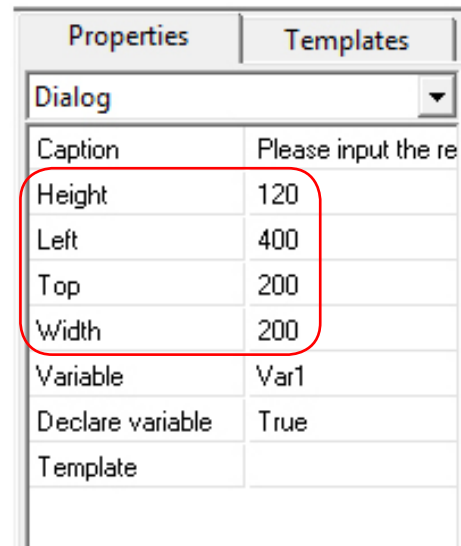
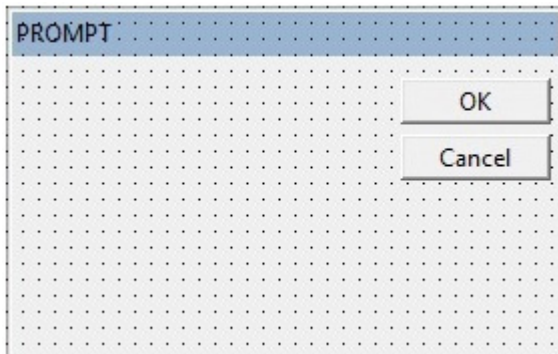


When the 'Prompt Editor' is opened the default dialogue window shown below will be displayed to provide a start point for creating the required dialogue window:



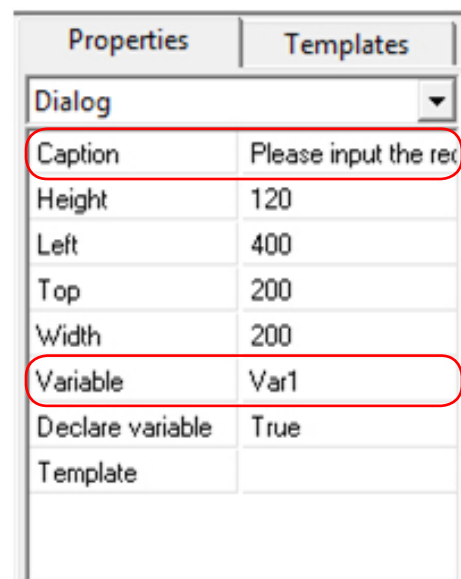
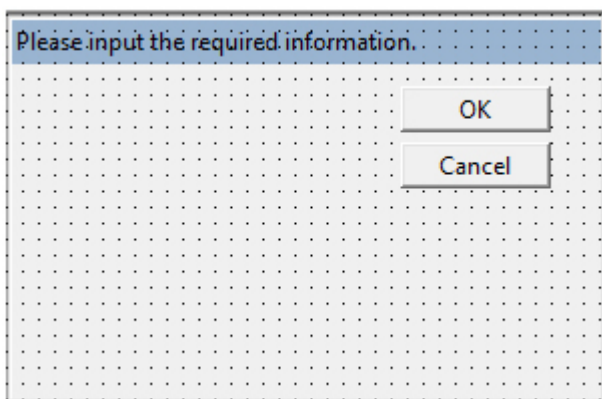
During creation of a dialogue window the 'Prompt Editor' will display the window as it will appear when the part program is run. Using options available on the 'Tools' toolbar, functions can be added, resized or edited.

The size and position of the prompt box needs to be defined. Define the 'height' and 'width' of the window using a suitable value. Also, adjust the position of the top left hand corner of the window using 'left' (the distance from the left of the screen) and 'top' (the distance from the top of the screen).



Input a suitable caption for the prompt box.

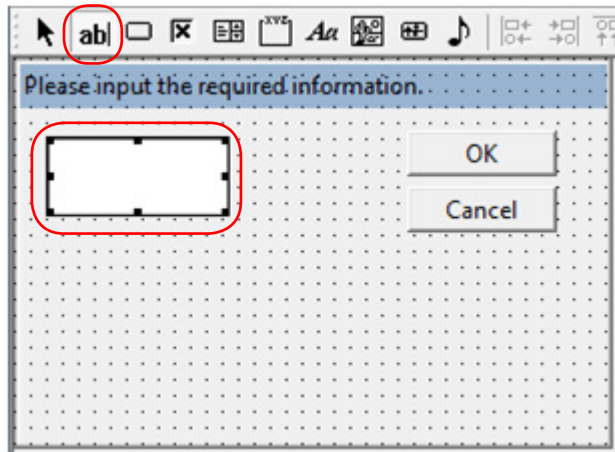
**Optional:** Modify the default variable name to a more meaningful name in order to self-document the prompt as it appears in the program code.




## 5 Adding an 'edit' field in a prompt box

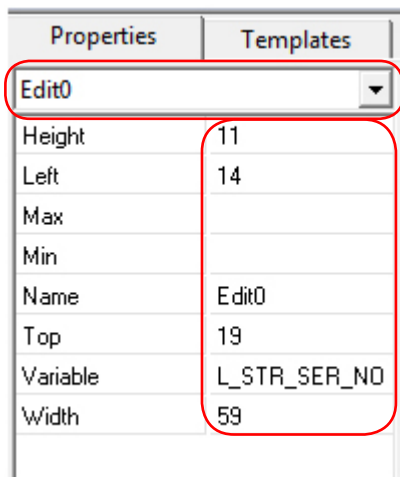
An edit field will be used to collect the part serial number information.

To add an input field (box) select the 'Edit' tool and then drag a box of the required size in the chosen location.




**GUIDANCE NOTE:** After creating the edit field, ensure that the selection tool  is selected to prevent unwanted features from being accidentally created.

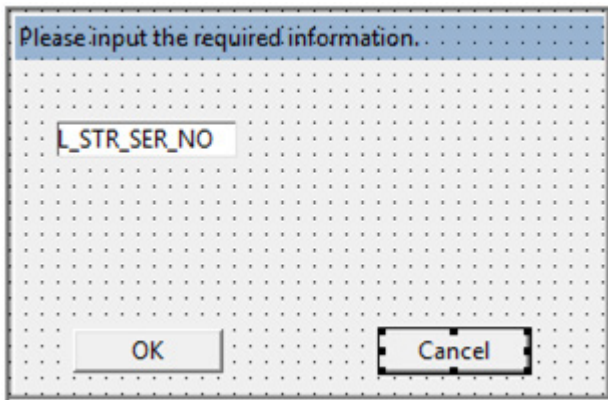
Once created, the size and location of the field can be modified in the properties pane.




Type the name of the variable, to which the inputted data will be assigned, into the 'Variable' field.

**GUIDANCE NOTE:** When required, each component in the prompt can be selected for editing either by clicking or by using the dropdown menu in the properties pane.

With the selection tool  selected, the 'OK' and 'Cancel' buttons can be moved to the bottom of the window by holding down the left mouse button and dragging.



---

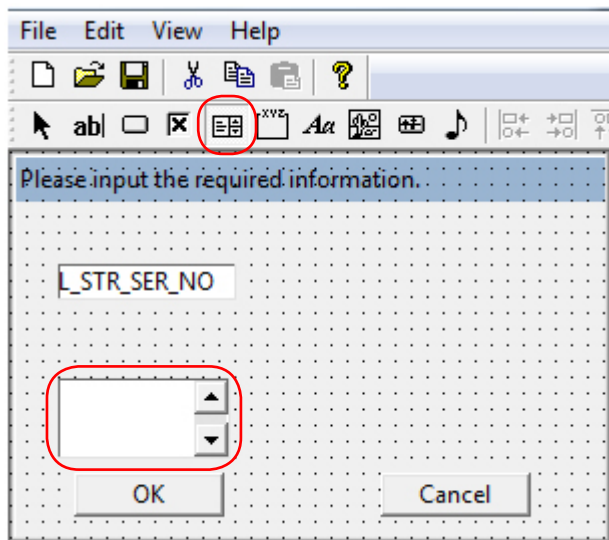
**GUIDANCE NOTE:** If an item is to be removed, highlight the item using the cursor in 'Select'  mode and then use the keyboard 'Delete' key.

---

## 6 Adding a 'list' box in a prompt box

A list box will be used in the prompt box to allow the name of an operator to be selected. A list box is appropriate because it allows a selection to be made from a discrete list, which reduces that chance of input errors.

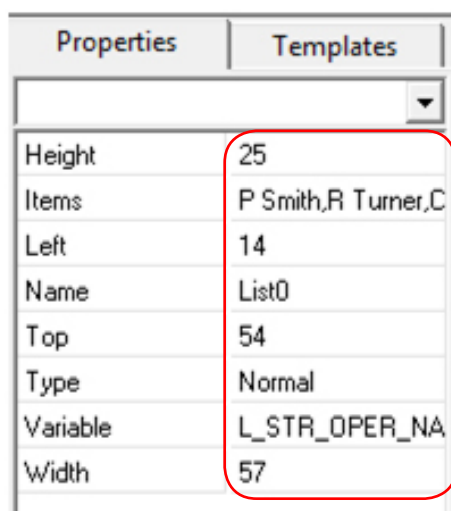
Select the 'List box' tool. In a similar way to the 'Edit' tool, drag a window of the approximate size and location into the prompt.



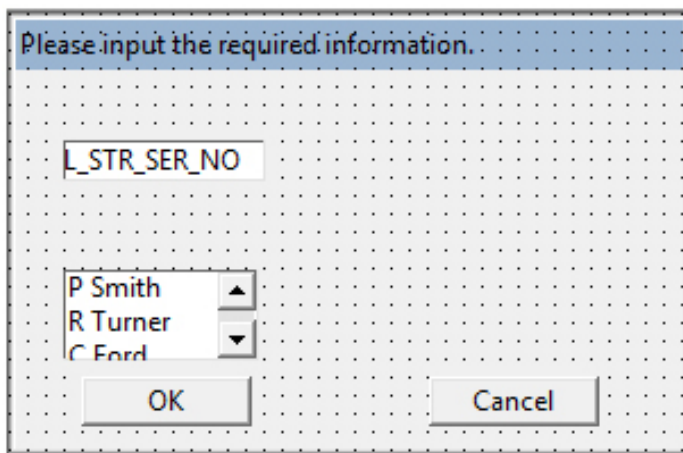
The size and position can be edited in the properties pane as before.

Type in the list of operator names in the 'Items' field, separating each name with a comma to show the restricted options. When the operator selects one of the options, this option will be assigned to the designated variable.

Type the name of the variable, to which the inputted data will be assigned, into the 'Variable' field.



The list box is now complete:



Please input the required information.

L\_STR\_SER\_NO

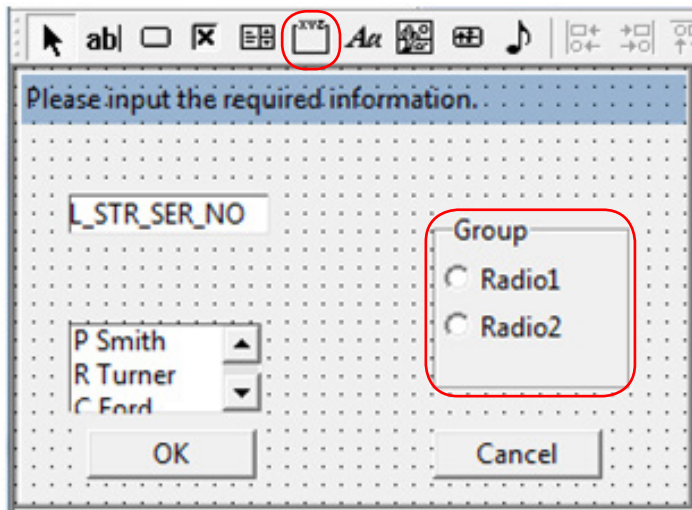
P Smith  
R Turner  
C Ford

OK Cancel

## 7 Adding a 'button' group in a prompt box

A button group will be used to allow the operator to select from three part size options: 'small', 'medium' and 'large'.

Select the 'Group' tool and drag a box to create a list of radio buttons:



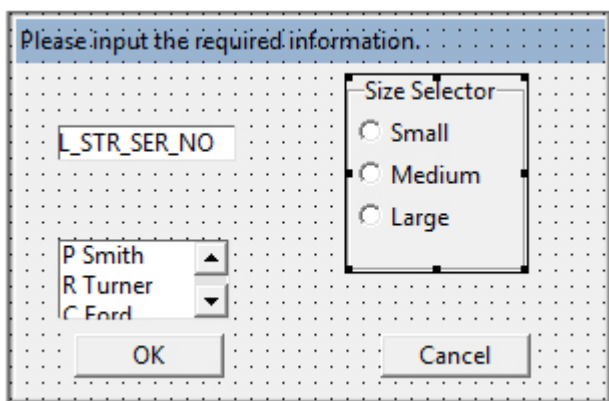
Modify 'Button Text' field to change the three button labels from the defaults.

Type an appropriate variable to the button group.

Change the 'Text' field to give the group a meaningful title.

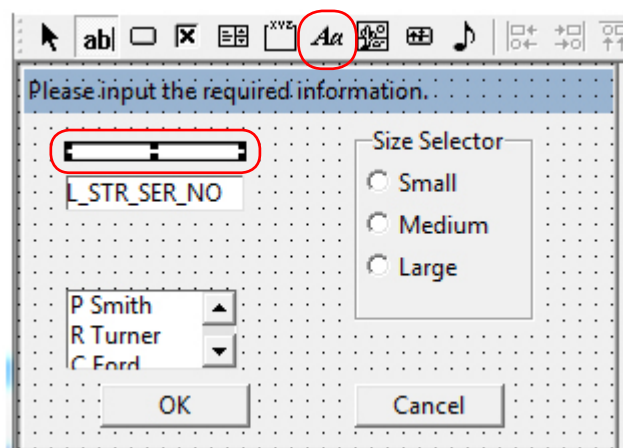
Properties		Templates
<div> <div></div> <div></div> </div>		
Button Text	Small,Medium,Larg	
Height	60	
Left	110	
Name	Group1	
Text	Size Selector	
Top	4	
Variable	L_INT_PART_CHC	
Width	60	

The button group is now complete.



The 'text' tool can be used to add headings to the 'edit' field and the 'list' box (the button group has an inbuilt text label).

Select the 'Text' tool and drag the text box into position:

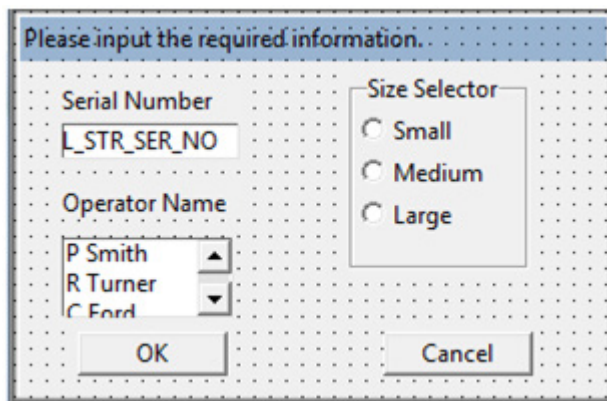


In the 'Properties' pane, type into the 'Text' field to give a suitable title. As before, other parameters can be adjusted if desired.

Properties		Templates
Text0		
Height	6	
Left	14	
Name	Text0	
Text	Serial Number	
Top	9	
Width	59	

Repeating the process to label the list box completes the prompt box.

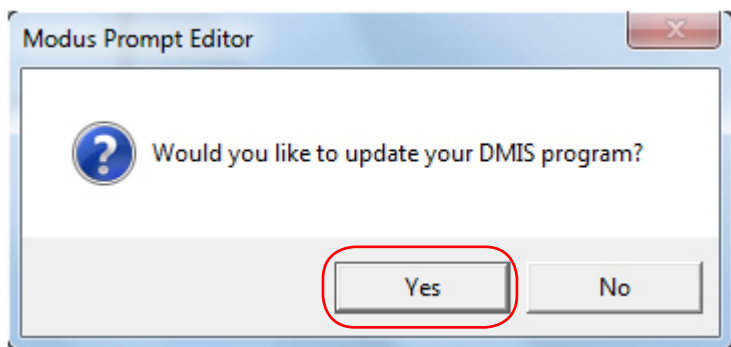




In order to add the relevant commands to the program, click 'File' and 'Exit and update DMIS code'.

**GUIDANCE NOTE:** There is no need to 'Save', 'Save As' or 'Save as Template', since the prompt is defined as DMIS code. However, the created dialogue window can be saved as a MODUS prompt (.mpt) file, which would be available for use in multiple programs.

When prompted 'Would you like to update your DMIS program', click 'Yes'.

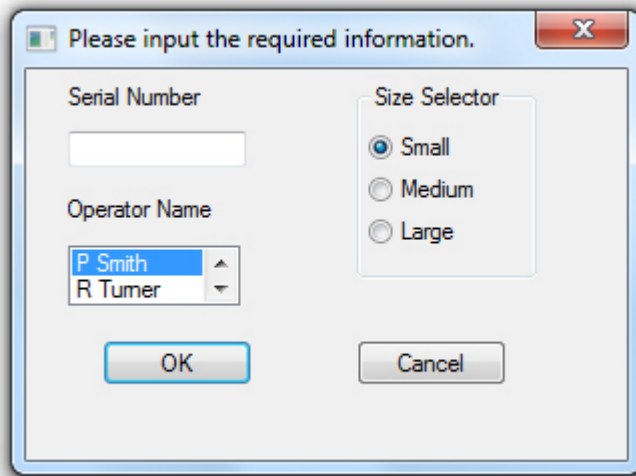


The DMIS code written to the program will look like the following example:

```
DECL/COMMON, LONG, Var1
Var1=PROMPT/400,200,200,120,TITLE,'Please input the required informati
```

**GUIDANCE NOTE:** The prompt has a variable that is automatically declared by the wizard. This variable is associated with the 'OK' and 'Cancel' buttons and it will only be used to run the prompt. To edit the prompt, place the right cursor on the line containing the prompt and go back to 'High Level' and 'Prompt'. The original prompt will open the way it was first programmed.

When run, the following dialogue box appears:



---

**GUIDANCE NOTE:** By selecting 'WATCH VARIABLES' from 'HIGH LEVEL' before running the program, the values of each of the variables can be monitored to check the dialogue box behaves correctly.

---

This page intentionally left blank

**Renishaw plc**  
New Mills, Wotton-under-Edge,  
Gloucestershire, GL12 8JR  
United Kingdom

**T** +44 (0)1453 524524  
**F** +44 (0)1453 524901  
**E** [uk@renishaw.com](mailto:uk@renishaw.com)  
[www.renishaw.com](http://www.renishaw.com)

**RENISHAW**   
**apply innovation™**

**For worldwide contact details,  
please visit our main web site at  
[www.renishaw.com/contact](http://www.renishaw.com/contact)**



H - 1000 - 5330 - 01